

(No Model.)

W. LEGGOTT.

MEHOD OF AND APPARATUS FOR DAMPENING GUMMED LABELS.

No. 367,643.

Patented Aug. 2, 1887.

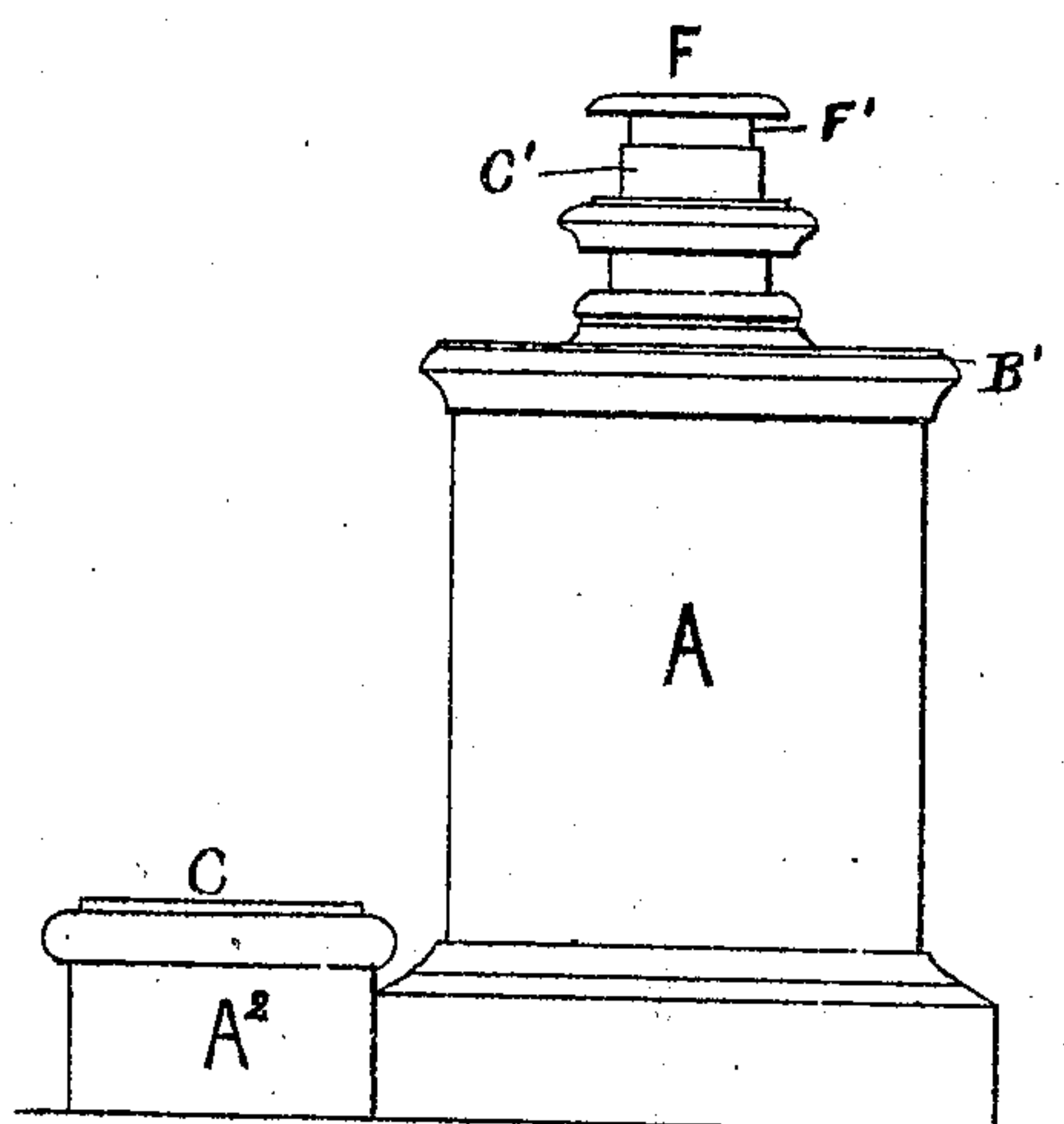


FIG. 1.

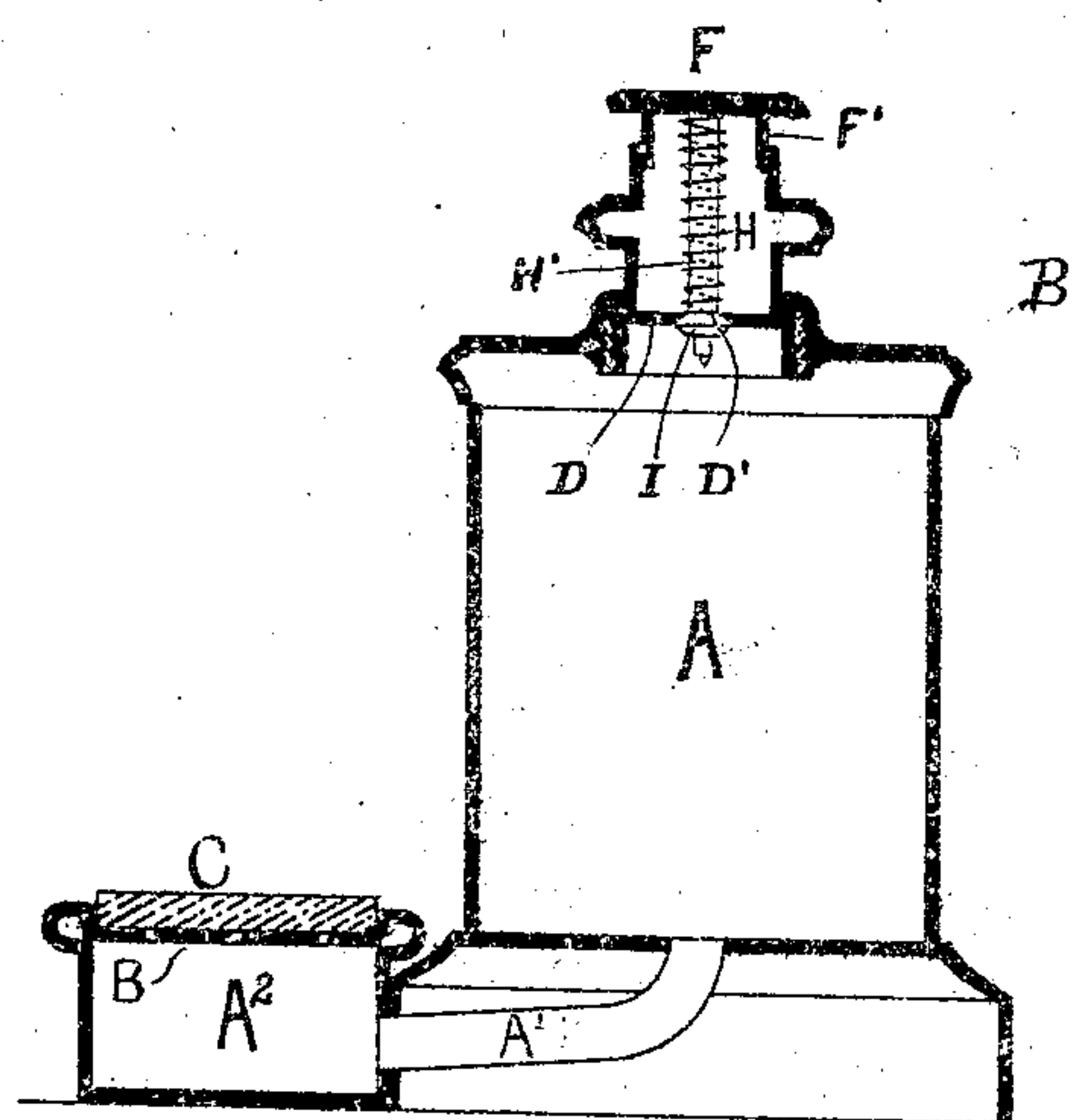


FIG. 2.

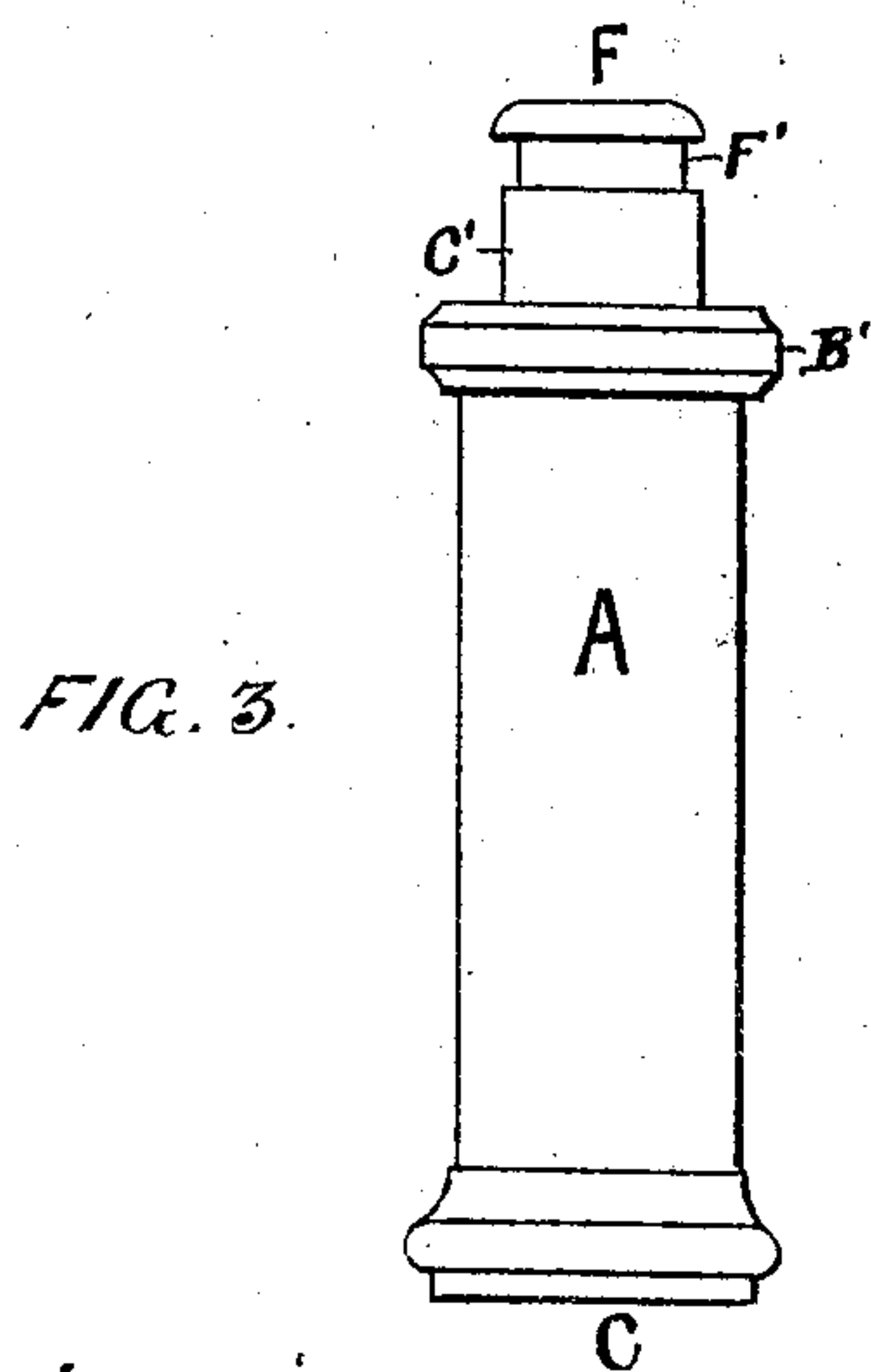


FIG. 3.

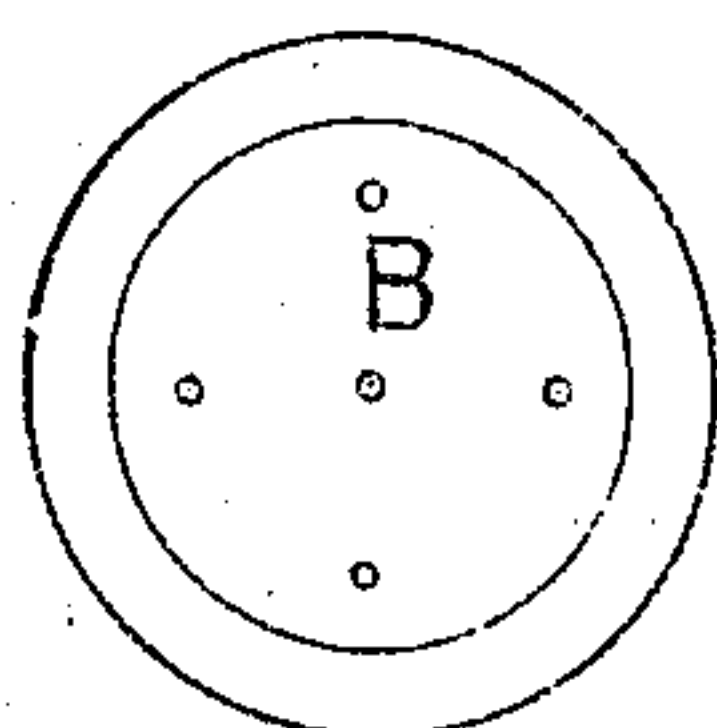


FIG. 5.

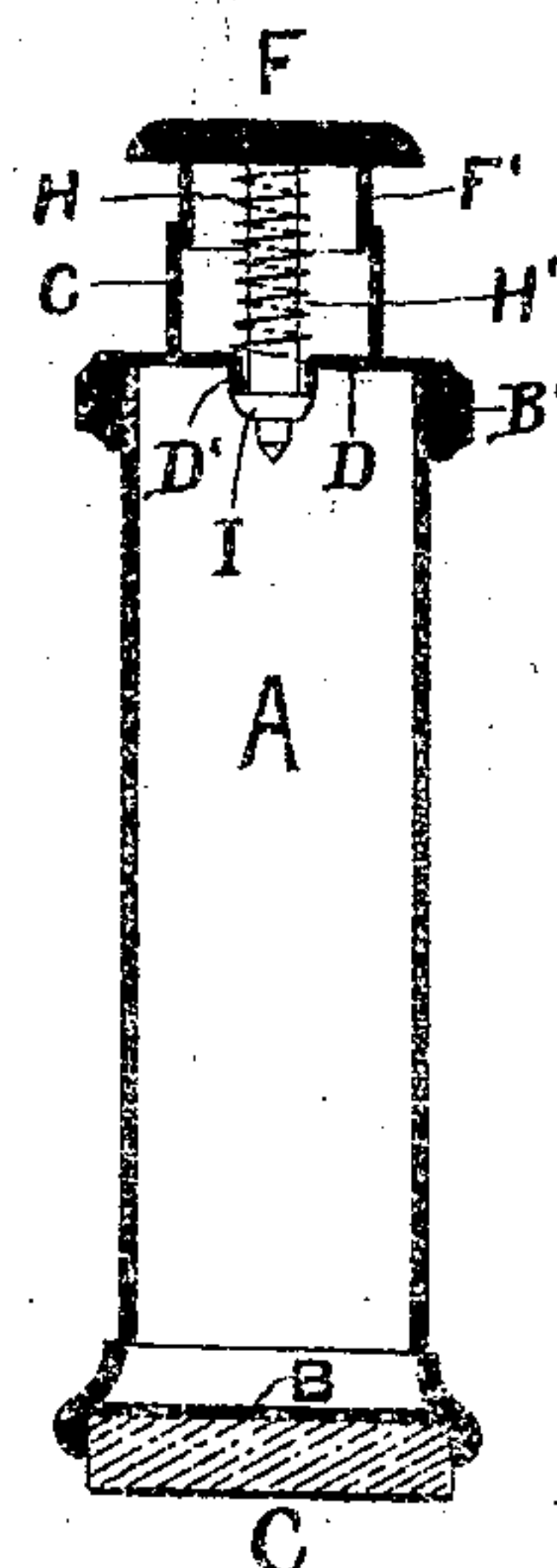


FIG. 4.

Witnesses.

Dennis Cumby.
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UNITED STATES PATENT OFFICE.

WILLIAM LEGGOTT, OF BRADFORD, COUNTY OF YORK, ENGLAND.

METHOD OF AND APPARATUS FOR DAMPENING GUMMED LABELS.

SPECIFICATION forming part of Letters Patent No. 367,643, dated August 2, 1887.

Application filed February 23, 1887. Serial No. 228,520. (No model.) Patented in England August 3, 1886, No. 9,931.

To all whom it may concern:

Be it known that I, WILLIAM LEGGOTT, a subject of the Queen of Great Britain and Ireland, residing at Bradford, in the county of York, England, have invented certain Improvements in the Method of and Apparatus for Dampening Labels, (for which I have received provisional protection in Great Britain, No. 9,931, dated August 3, 1886,) of which the following is a specification.

This invention has for its object to provide a novel device for dampening the gummed side of labels, postage-stamps, and the like preparatory to applying them to the articles to which they are to be secured.

The object of my invention I accomplish by the features of construction and combination of parts, hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a side elevation of a device embodying my invention. Fig. 2 is a vertical central sectional view of the same; Fig. 3, a side elevation of a modified construction; Fig. 4, a longitudinal central sectional view of Fig. 3; and Fig. 5 an end view of Fig. 3, omitting the porous disk for supplying the liquid.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring to the drawings, where the letter A indicates a hollow case for holding the dampening-fluid, provided with a perforated diaphragm, B, over which is secured a disk, C, of porous material, such as felt or similar material. The top cover or wall, B', of the case is detachable for supplying the liquid, and it is provided with a central vertical extension in the form of a tube, C', having in its lower portion a diaphragm, D, provided with a valve-opening, D'. Inside the top end of the tubular extension and guided thereby is arranged to slide vertically the tubular or extension part F' of a cap, F, to which latter is secured a central depending stem, H, having at its lower end a valve, I, to open and close the valve-opening D' in the diaphragm D.

In Figs. 1 and 2 the case A is extended to form a chamber, A², connected by a pipe, A',

with the case, and this chamber is provided with the perforated diaphragm B and porous disk C.

In Figs. 3, 4, and 5 the perforated diaphragm and porous disk are directly in one end of the case.

On applying pressure to the cap F its extension F' is guided by the tubular extension C', and the valve D' is thereby opened downward to admit air into the upper part of the case, thereby causing a proportionate quantity of water to pass through the perforated diaphragm to saturate the porous disk C, so that when the gummed label or other article is applied to said disk the gum is sufficiently dampened so that it will adhere to the article to which it is to be applied. When the pressure on the cap is released, the latter is forced outward and the valve reseated through the medium of a spring, H', encircling the valve stem H, and having one end bearing against the valve and the other end against the cap. When the valve is reseated, the water and air are held in the reservoir until the valve is again opened to admit more air. It will thus be seen that the valve is an air-inlet-controlling valve, in that it admits air to or excludes it from the case, and the flow of water to the porous disk is in proportion to the quantity of air admitted to the case above the water contained therein.

Having thus described my invention, what I claim is—

The combination, with the case A, perforated diaphragm B, and porous disk C, of the cover B', having the outward tubular extension, C', provided at its inner end with the diaphragm D and valve-opening D', the cap F, having a sliding extension, F', guided by said tubular extension and provided with a stem carrying a valve, D', for controlling the entrance of air into the case above the liquid therein, and a spring for throwing the cap and its extension outward when passed inward and released, substantially as described.

WILLIAM LEGGOTT.

Witnesses:

ARTHUR JOS. TAYLOR,
WILLIAM PAEST.